

**LOW LOSS, NOISE FILTERING
MULTIPLEXER/DEMULTIPLEXER FOR
RECONFIGURABLE OADMS**

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Abstract of the Disclosure

Agile OADM structures having a range of tradeoffs between costs and flexibility are disclosed. In certain implementations, cyclic AWGs (arrayed waveguide gratings) are employed. Excellent optical performance is achieved along with relatively low initial and upgrade costs. An economically optimal level of network flexibility may thus be
10 achieved.